Medical Oncology

and Tumor Pharmacotherapy

Volume 8, 1991



PERGAMON PRESS

Oxford • New York • Seoul • Tokyo

Medical Oncology and Tumor Pharmacotherapy

SENIOR EDITORS

James F. Holland, MD, Department of Neoplastic Diseases, Mt Sinai School of Medicine, New York, NY 10029, U.S.A. Georges Mathé, MD, Institut de Cancérologie et d'Immunogénétique, Hôpital Paul Brousse, 94800 Villejuif, France Peter Reizenstein, MD, Division of Hematology, Karolinska Institute and Hospital, 10401 Stockholm, Sweden

COORDINATING EDITOR

Peter Reizenstein, MD, Division of Hematology, Karolinska Institute and Hospital, 10401 Stockholm, Sweden

ASSOCIATE EDITORS

Paul Calabresi, MD, Department of Medicine, Roger Williams General Hospital, Brown University, Providence, RI 02912, U.S.A.

Kiyoji Kimura, MD, National Nagoya Hospital, 4-1-1, Sannomaru, Naka-ku, Nagoya 460, Japan J. M. A. Whitehouse, MD, C.R.C. Medical Oncology Unit, Centre Block CP 99, Southampton SO9 4XY, U.K. P. Wiernik, MD, Department of Oncology, Montefiore Medical Center, 111 East 210th Street, Bronx, NY 10467, U.S.A.

EDITORIAL BOARD

L. Andersson, Stockholm (Urology)

G. Bonadonna, Milan (Chemotherapy)

M. Dicato, Luxembourg (Diagnostic Oncology)

S. Dray, Chicago (Immunology)

N. Einhorn, Stockholm (Gynecology)

H. Fudenberg, Charleston (Immunology)

H. Hansen, Copenhagen (Lung Cancer)

M. Hansson, Stockholm (Immunology)

K. Harrap, London (Pharmacology)

R. Hast, Stockholm (Hematology) E. M. Hersh, Houston (Immunology)

L.-E. Holm, Stockholm (Cancer Prevention)

K. Karrer, Vienna (Lung Cancer)

B. Littbrand, Umeå (Oncology)

J. McLaren, Atlanta (Hyperthermia)

T. Miale, Knoxville (Pediatric Oncology)

F. Mitelman, Lund (Cytogenetics)

B. Modan, Tel Aviv (Epidemiology)

B. Nordenskjöld, Linköping (Endocrinology)

R. T. D. Oliver, London (Urology)

C. Peterson, Stockholm (Pharmacology)

H. M. Pinedo, Amsterdam (Pharmacotherapy)

J. Ponten, Uppsala (Pathology)

H. D. Preisler, Cincinnati (Leukemia)

L. Sachs, Jerusalem (Differentiation)

C. Schmidt, Essen (Oncology)

F. Takaku, Tokyo (Oncology)

M. Toga, Marseilles (Neurology)

Annual institutional subscription rate (1991) DM 300.00 (including postage and insurance). Two-year rate (1991/92) DM 570.00. Personal subscription rate for those whose library subscribes at the regular rate (1991); prices available on application. Subscription rates for Japan include despatch by air and prices are available on application. Prices are subject to change without notice.

Publishing and Advertising Offices. Pergamon Press Inc., 395 Saw Mill River Road, Elmsford, NY 10523, U.S.A.; Pergamon Press Ltd, Headington Hill Hall, Oxford OX3 0BW, U.K. Tel: (0865) 794141; Fax: (0865) 60285.

Back Issues. Back issues of all previously published journals, in both hard copy and on microform, are available direct from Pergamon Press offices.

Copyright © 1992 Pergamon Press Ltd

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright of their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required for authors who work for organisations which do not permit such assignments. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

Disclaimer. Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appears in this journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the publishers, the editorial board and editors and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

Drug and dosage selection. The authors have made every effort to ensure the accuracy of the information herein, particularly with regard to drug selection and dose. However, appropriate information sources should be consulted, especially for new or unfamiliar drugs or procedures. It is the responsibility of every practitioner to evaluate the appropriateness of a particular opinion in the context of actual clinical situations and with due consideration to new developments.

U.S. Copyright Law Applicable to Users in the U.S.A.

Photocopying information for users in the U.S.A.: The Item-Fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid. The appropriate remittance of \$3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 27 Congress Street, Salem, MA 01970. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

The Item-Fee Code for this publication is: 0736-0118/91 \$3.00 + .00.

List of Contents Number 1

Review

E. MUNCK-WIKLAND

1 Tumor markers

Original Articles

- G. LUPOLI, G. LOMBARDI, N. PANZA, B. BIONDI, G. PACILIO, S. LASTORIA and M. SALVATORE
- 7 (131I)Meta-iodobenzylguanidine scintigraphy and selective venous catheterization after thyroidectomy for medullary thyroid carcinoma
- D. MOHANTY, K. GHOSH and K. C. DAS
- 15 Studies on the mechanism of synthesis and release of the procoagulant activity from leukaemic cells
- ZHAO YOU TANG, HAI YAN ZHOU, GANG ZHAO, LI MIAN CHAI, MING ZHOU, JI ZHEN LU, KANG DA LIU, H. F. HAVAS and H. C. NAUTS
- 23 Preliminary result of mixed bacterial vaccine as adjuvant treatment of hepatocellular carcinoma
- V. ABBASCIANO, L. GRAZIANO, D. ARCUDI, G. FELISATTI, A. R. CAVALLINI, M. G. REALI, N. CALIA, S. CAMPI and C. GUGLIELMINI
- 29 Serum thymidine kinase in diagnosis and follow-up of the small cell carcinoma of the lung
- J. KOBERDA and A. HELLMANN
- 35 Glutathione S-transferase activity of leukemic cells as a prognostic factor for response to chemotherapy in acute leukemias
- F. RIES and M. DICATO
- 39 Treatment of advanced and refractory breast cancer with doxorubicin, vincristine and continuous infusion of verapamil. A phase I-II clinical trial

Case Report

- W. D. LOGAN, JR and K. ALONSO
- 45 Total body hyperthermia in the treatment of Kaposi's Sarcoma in an HIV positive patient

Book Reviews

- 49
- Notes & News and Mini-Reviews
- 53

Announcement

- 55
- Information for Authors
- i

Number 2

Original Articles

- P. M. SCHWARZBURD and K. B. ASLANIDI
- 57 Resistance of single tumor cells and their intracellular compartments to lipid peroxidation
- J.-O. FERNBERG,
- R. LEWENSOHN and S. SKOG
- F. FRANCHI, C. BARONE,
- E. RICEVUTO, A. CASSANO,
- A. ASTONE, C. POZZO,
- L. SOFO, G. NETRI,
- C. RATTO, C. COCO,
- A. CAVALLARO, P. SEMINARA,
- P. BONATTI, A. BUTTI,
- G. CODACCI-PISANELLI and A. GRIECO

- 63 Interphase cell death as related to the cell cycle of melphalan-treated human myeloma cells
- 69 5-Fluorouracil (FU) with folinic acid (FA) and mitomycin C (MMC) in the adjuvant treatment of colorectal carcinoma. Part I. Evaluation of toxicity

F. FRANCHI, C. BARONE, P. SEMINARA, G. CODACCI-PISANELLI, M. CODACCI-PISANELLI, G. M. FERRI, C. GARUFI, A. GRIECO and V. PAGANI	75	5-Fluorouracil (FU) and mitomycin C (MMC) in the management of colorectal carcinoma. Part II. <i>In vitro</i> activity of the two drugs in short term tumor cultures
R. HENRIKSSON, K. O. ROGO and K. GRANKVIST	79	Interaction between cytostatics and nutrients
S. BEN-EFRAIM, C. TAK, M. J. W. A. FIEREN, GJ. C. M. VAN DEN BEMD and I. L. BONTA	87	Inflammation amplifies the antitumor cytostasis by human peritoneal macrophages
R. RICCARDI, A. LASORELLA, R. L. TARTAGLIA, A. RICCARDI, T. SERVIDEI and R. MASTRANGELO	95	Cranial irradiation and cerebrospinal fluid levels of 6-mercaptopurine in children with acute leukemia
A. FRASSOLDATI, M. FEDERICO, F. BARBIERI, M. BRAUSI, C. POLLASTRI, G. BERRI, G. CASTAGNETTI, P. P. PALLADINI and V. SILINGARDI	99	Methotrexate, vinblastine, epidoxorubicin and cisplatin (M-VEC) in patients with locally advanced transitional bladder cancer
P. LENNER, H. JONSSON and O. GARDFJELL	105	Trends in cancer incidence, survival and mortality in northern Sweden 19601986
Brief Report S. SHARMA, A. KARAK, D. N. SHARMA and S. AGGARWAL	113	Hemopoietic stem-cell differentiation in fetal liver, spleen and thymus of rhesus monkeys
Book Reviews	115	
Announcement	117	
Information for Authors	i	

Number 3

Special Issue: Primary and Secondary Prevention, and Early Detection of Tumors

119

Editorial

P. REIZENSTEIN

L. E. RUTQVIST

Original Articles
L. SANTAMARIA and
A. BIANCHI-SANTAMARIA
P. F. L. HALL
J. PONTÉN, H.-O. ADAMI and P. SPARÉN

121 Free radicals as carcinogens and their quenchers as anticarcinogens
121 Cancer risks after medical radiation
147 Trends in cancer survival and mortality rates

E. J. FREIREICH 155 Prevention of chemotherapy-induced leukemia and of leukemia relapses

E. FORNI and M. G. VALESI 159 Preventing relapses of breast cancer with modified radical mastectomy

163 Prevention of breast cancer recurrence with adjuvant cytotoxic or endocrine therapy

	460 7
J. A. LINSK	169 Breast cancer: early diagnosis of precursor lesions and clinically inapparent carcinoma by fine needle aspiration
F. PETTERSSON	175 Efficacy of cervical cancer screening
U. RINGBORG, B. LAGERLÖF, M. BROBERG, E. MÅNSSON-BRAHME, A. PLATZ and M. THÖRN	183 Early detection and prevention of cutaneous malignant melanoma: emphasis on Swedish activities
F. FRASSONI	189 Eradication of leukaemic marrow and prevention of leukaemia relapse with total body irradiation and bone marrow transplantation
J. PONTÉN	203 Mammography
G. MASUCCI, P. RAGNHAMMAR, JE. FRÖDIN, AL. HJELM, P. WERSÄLL, J. FAGERBERG, A. ÖSTERBORG and H. MELLSTEDT	207 Chemotherapy and immunotherapy of colorectal cancer
Information for Authors	I
	Number 4
	Number 4
Editorial	
P. REIZENSTEIN	221
Reviews M. ROSELLI, C. U. CASCIANI, F. GUADAGNI, O. BUONOMO, B. IORIO, A. DIODATI, V. VITTORINI, J. W. GREINER, D. COLCHER and J. SCHLOM	223 Monoclonal antibodies in the management of carcinoma patients
P. REIZENSTEIN	229 Iron, free radicals and cancer
Original Articles	
P. M. SCHWARTZBURD and K. B. ASLANIDI	235 Analysis of some metabolic conditions promoting selective sensitivity of tumor cells to peroxidative stress
C. CHARPIN, M. J. DICAIRE, B. BARBEAU, M. N. LAVAUT, C. ANDONIAN, B. DEVICTOR, C. ALLASIA, P. BONNIER and R. MANDEVILLE	243 Monoclonal 3C6F9 distribution in human breast carcinomas: image cytometry of immunocytochemical assays
H. JACOBSSON and H. GÖRANSSON	253 Radiological detection of bone and bone marrow metastases
A. BACIGALUPO, M. T. VAN LINT, F. FRASSONI, D. OCCHINI, F. GUALANDI, T. LAMPARELLI and A. M. MARMONT	261 Late complications of allogeneic bone marrow transplantation
R. LEWENSOHN, JO. FERNBERG, H. EHRSSON and G. MERLINI	265 Efficacy of peptide bound m-L-sarcolysin (peptichemio) on melphalan resistant human myeloma cells <i>in vitro</i>
D. BROHÉE	5-Fluorouracil (5FU) with or without folinic acid (LV) in human colorectal cancer? Multivariate meta-analysis of the literature

Y. EL-KHATIB, J. GIDÁLI, I. FEHÉR, A. POROS, A. MÓD and S. HOLLÁN

Book Review

Volume Contents and Author Index to Volume 8, 1991 281 Growth kinetics and blast-colony forming cell binding capacity of aplastic anaemic stromal cells

287

i

